

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:
GLASSMAN ET AL.

CASE NO.: BB1449 US NA

APPLICATION NO.: UNKNOWN

GROUP ART UNIT: UNKNOWN

FILED: CONCURRENTLY HERewith

EXAMINER: UNKNOWN

FOR: **RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE
EXPRESSION**

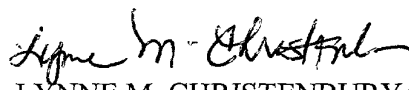
Assistant Commissioner for Patents
Washington, DC 20231

Sir:

DECLARATION IN ACCORDANCE WITH 37 CFR 1.821

I hereby state that the content of the paper and computer readable copies of the
Sequence Listing, submitted in accordance with 37 CFR 1.821(c) and (e), respectively are the
same.

Respectfully submitted,


LYNNE M. CHRISTENBURY
ATTORNEY FOR APPLICANTS
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FACSIMILE: 302-892-1026

Dated: 22 June 2001

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- ☒ The attached application, docket BB1449 US NA or
- ☐ Application No. _____, filed on _____,
- ☐ as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: KIMBERLY F. GLASSMAN

Signature: _____ Citizen of: U.S.A.

Inventor two: WILLIAM J. GORDON-KAMM

Signature: _____ Citizen of: U.S.A.

Inventor three: ANTHONY J. KINNEY

Signature: _____ Citizen of: UNITED KINGDOM

Inventor four: KEITH S. LOWE

Signature: _____ Citizen of: U.S.A.

☐ Additional inventors are being named on 1 additional form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the PTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

| | |
|--------------------------|---------------------------|
| FULL NAME OF INVENTOR(S) | |
| Inventor one: | <u>SCOTT E. NICHOLS</u> |
| Signature: _____ | Citizen of: <u>U.S.A.</u> |
| Inventor two: | <u>KEVIN L. STECCA</u> |
| Signature: _____ | Citizen of: <u>U.S.A.</u> |
| Inventor three: | _____ |
| Signature: _____ | Citizen of: _____ |
| Inventor four: | _____ |
| Signature: _____ | Citizen of: _____ |

11/11/2011 10:00 AM

SEQUENCE LISTING

<110> Glassman, Kimberly F.
Gordon-Kamm, William J.
Kinney, Anthony
Lowe, Keith S.
Nichols, Scott E.
Stecca, Kevin L.

<120> RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION

<130> BB1449 US NA

<140>
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<160> 17

<170> Microsoft Office 97

<210> 1
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<223> Description of Artificial Sequence: ELVISLIVES PCR primer

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<210> 2
<211> 30
<212> DNA
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<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1

<400> 2
ggaaaaccat gcaaccatt ggtacttgct 30

<210> 3
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<213> Artificial Sequence

<220>
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of soybean Fad2-1

<400> 3
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<210> 4
<211> 30

<212> DNA
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 <400> 4
 agcaagtacc aatggatact tgttcctgta 30

 <210> 5
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 <212> DNA
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 <220>
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 of soybean Fad2-1

 <400> 5
 tacaggaaca agtatccatt ggtacttgct 30

 <210> 6
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: pKS102 linker

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 <210> 7
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of Cer3

 <400> 7
 ggcgcgccaa gcttgatcc gtgcacggcg cgcc 34

 <210> 8
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of Cer3

 <400> 8
 gaattcgcg cgcggcacg agatttgagg 30

<210> 9
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of Cer3

 <400> 9
 ttgcccaatg tttatgcata ttagaactg 30

<210> 10
 <211> 30
 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: PCR primer for amplification
 of Cer3

 <400> 10
 cagttctaca tatgcataaa cattgggcaa 30

<210> 11
 <211> 30
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: ELVISLIVES complementary
 region of pKS106 and pKS124

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<210> 12
 <211> 80
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ELVISLIVES complementary
 region of pKS106 and pKS124

 <400> 12
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 gagatgacca gctccggccg 80

<210> 13
 <211> 154
 <212> DNA
 <213> Artificial Sequence

<220>
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region of pKS133

<400> 13
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actcgacgat gagcgagatg accagctccg gccg 154

<210> 14
<211> 92
<212> DNA
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<220>
<223> Description of Artificial Sequence: ELVISLIVES PCR primer

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<210> 15
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<400> 15
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<210> 16
<211> 33
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<213> Artificial Sequence

<220>
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of soybean Fad2-1

<400> 16
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<210> 17
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1

<400> 17
gaattcgcg ccgcttaatc tctgtccata gtt 33

<210> 18
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1, 5'-end

<400> 18
gaattcgcg cgcaccaatc tattgggttc tc 32

<210> 19
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1, 3'-end of 25 nucleotide fragment

<400> 19
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<210> 20
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1, 3'-end 75 nucleotide fragment

<400> 20
gaattcgcg cgcggcatg gtgaccacac tc 32

<210> 21
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1, 3'-end of 150 nucleotide fragment

<400> 21
gaattcgcg ccgctgagaa ataagggact aa 32

<210> 22
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1, 3'-end 300 nucleotide fragment

<400> 22
 gaattcgcg cgcgagtggt gacgagaaga ga 32

<210> 23
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1, 3'-end 600 nucleotide fragment

<400> 23
 gaattcgcg cgcgttctga tgaatcgtaa tg 32

<210> 24
 <211> 1717
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ELVISLIVES complementary
 region of pBS68

<400> 24
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 ttcaactcaac acttttagtc ccttatttct catggaaaat aagccatcgc cgccatcact 180
 ccaacacagg ttcccttgac cgtgatgaag tgtttgtccc aaaacaaaaa tccaaagttg 240
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 atgtctctga tgttgctttg ttttctgtga ctactctct ctaccgtgtt gcaacctga 480
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<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Lea promoter 5'-end

<400> 25
attaacctca attcttctaa g 21

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Lea promoter 3'end

<400> 26
ttcaaagatc aattatttcc 20

<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of phaseolin terminator 5'-end

<400> 27
catggccacg tgcataaagt at 22

<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of phaseolin terminator 3'-end

<400> 28
atccctgaag tgtctcattt ta 22

<210> 29
<211> 963
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS149

<400> 29

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gcctacgtca ccttcctcgc cggaacgggt gactatgtga aagggtgtcgt tggcttgcca 180
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gtgtaccccc cagagaatca aaccagttt gccatggcat attacgtcat caactattcc 360
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caagtttttg acaacattga ccacttgga tcgattcctga gctgatttaa accaccgttg 480
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ccg 963
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<211> 987

<212> DNA

<213> Glycine max

<400> 30

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gtcgttggt tggcaaaagg tctgagaaaa gtgaagagca tgtaccctct ggtggttgca 180
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ttgtccgtg ccccatctgc tgcttaa 987
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<211> 328

<212> PRT

<213> Glycine max

<400> 31

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 <212> DNA
 <213> Glycine max

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 aaggaacaac gtctatggtt ttaatttgga tgaccttctt gtatacaaag ccacatgtga 1260
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 <211> 358
 <212> PRT
 <213> Glycine max

<400> 33
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 Asn Leu Phe Leu Ser Ser Tyr Phe Pro Phe Gln Ile Met Pro Pro Asn
 20 25 30
 Ile Thr Thr Val Val Ala Asn Val Thr Thr Glu Gln Leu Pro Lys Ala
 35 40 45
 Arg Gly Gly Ser Gly Arg Ala Phe Val Thr Phe Leu Ala Gly Asn Gly
 50 55 60
 Asp Tyr Val Lys Gly Val Val Gly Leu Ala Lys Gly Leu Arg Lys Ala
 65 70 75 80
 Lys Ser Met Tyr Pro Leu Val Val Ala Val Leu Pro Asp Val Pro Glu
 85 90 95
 Glu His Arg Glu Ile Leu Lys Ser Gln Gly Cys Ile Val Arg Glu Ile
 100 105 110
 Glu Pro Val Tyr Pro Pro Glu Asn Gln Thr Gln Phe Ala Met Ala Tyr
 115 120 125

Tyr Val Ile Asn Tyr Ser Lys Leu Arg Ile Trp Glu Phe Val Glu Tyr
 130 135 140
 Lys Lys Thr Ile Tyr Leu Asp Gly Asp Ile Gln Val Phe Gly Asn Ile
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 Asp His Leu Phe Asp Leu Pro Asp Asn Tyr Phe Tyr Ala Val Met Asp
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 Cys Phe Cys Glu Lys Thr Trp Ser His Thr Pro Gln Phe Gln Ile Gly
 180 185 190
 Tyr Cys Gln Gln Cys Pro Asp Lys Val Gln Trp Pro Ser His Phe Gly
 195 200 205
 Ser Lys Pro Pro Leu Tyr Phe Asn Ala Gly Met Phe Val Tyr Glu Pro
 210 215 220
 Asn Leu Asp Thr Tyr Arg Asp Leu Leu Gln Thr Val Gln Leu Thr Lys
 225 230 235 240
 Pro Thr Ser Phe Ala Glu Gln Asp Phe Leu Asn Met Tyr Phe Lys Asp
 245 250 255
 Lys Tyr Lys Pro Ile Pro Asn Met Tyr Asn Leu Val Leu Ala Met Leu
 260 265 270
 Trp Arg His Pro Glu Asn Val Glu Leu Asp Lys Val Gln Val Val His
 275 280 285
 Tyr Cys Ala Ala Gly Ser Lys Pro Trp Arg Phe Thr Gly Lys Glu Glu
 290 295 300
 Asn Met Asp Arg Glu Asp Ile Lys Met Leu Val Lys Lys Trp Trp Asp
 305 310 315 320
 Ile Tyr Glu Asp Glu Thr Leu Asp Tyr Asn Asn Asn Ser Val Asn Val
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 340 345 350
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<210> 34
 <211> 515
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: SHH3 complementary
 region of PHP17939

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 agattgacgg ttgattgtat tttgtttttt tatgggttttg tggtatgact taagtcttca 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tctctttatc | tcttcatcag | gtttgacggt | tacttaatat | ggtgcatgca | tgggtacatc | 240 |
| actagaaacc | atggaaggta | ccaagatatc | aaccgcggaa | agatcgtaca | aatggcatgt | 300 |
| taaataaccg | tcaaacctga | tgaagagata | aagagatgaa | gacttaagtc | ataacacaaa | 360 |
| accataaaaa | acaaaaatac | aatcaaccgt | caatctgacc | aatgcatgaa | aaagctgcaa | 420 |
| tagtgagtgg | cgacacaaag | cacatgattt | tcttacaacg | gagataaaac | caaaaaata | 480 |
| tttcatgaac | aacctagaac | aaataaagcg | ttaac | | | 515 |

<210> 35
 <211> 1968
 <212> DNA
 <213> Glycine max

| | | | | | | |
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| <400> 35 | | | | | | |
| atgccacaca | acacaatggc | ggccaccgct | tccagaacca | cccgattctc | ttcttctctc | 60 |
| tcacacccca | ccttcccca | acgcattact | agatccaccc | tccctctctc | tcacaaacc | 120 |
| ctcacaaaac | ccaaccacgc | tctcaaaatc | aaatgttcca | tctccaaacc | ccccacggcg | 180 |
| gcgcccttca | ccaaggaagc | gccgaccacg | gagcccttcg | tgtcacgggt | cgcctccggc | 240 |
| gaacctcgca | agggcgcgga | catccttggt | gaggcgctgg | agaggcaggg | cgtgacgacg | 300 |
| gtgttcoggt | accccggcgg | tgcgtcgatg | gagatccacc | aggcgctcac | gcgctccggc | 360 |
| gccatccgca | acgtgctccc | gcgccacgag | caggcgcgcg | tcttcgccc | cgaaggctac | 420 |
| gcgcgttctt | ccggcctccc | cgcggtctgc | attgccacct | ccggccccgg | cgccaccaac | 480 |
| ctcgtgagcg | gcctcgccga | cgctttaatg | gacagcgtcc | cagtcgtcgc | catcacgggc | 540 |
| caggctcgcc | gccggatgat | cggcaccgac | gccttccaag | aaaccccgat | cgtggagggt | 600 |
| agcagatcca | tcacgaagca | caactacctc | atcctcgacg | tcgacgacat | cccccgctc | 660 |
| gtcgccgagg | ctttcttctg | cgccacctcc | ggccgccccg | gtccggctct | catcgacatt | 720 |
| cccaaagaag | ttcagcagca | actcgccgtg | cctaattggg | acgagcccg | taacctcccc | 780 |
| ggttacctcg | ccaggctgcc | caggcccccc | gccgaggccc | aattggaaca | cattgtcaga | 840 |
| ctcatcatgg | aggcccaaaa | gccggttctc | tacgtcgcg | gtggcagttt | gaattccagt | 900 |
| gctgaattga | ggcgctttgt | tgaactcact | ggtattcccc | ttgctagcac | tttaatgggt | 960 |
| cttggaactt | ttcctattgg | tgatgaatat | tcccttcaga | tgctgggtat | gcattggtact | 1020 |
| gtttatgcta | actatgctgt | tgacaatagt | gatttggtgc | ttgcctttgg | ggtaagggtt | 1080 |
| gatgaccgtg | ttactgggaa | gcttgaggct | tttgctagta | gggctaagat | tgttcacatt | 1140 |
| gatattgatt | ctgccgagat | tggaagaagc | aagcaggcgc | acgtgtcggt | ttgcgcggat | 1200 |
| ttgaagttgg | ccttgaaggg | aattaatatg | atthttggag | agaaaggagt | ggagggttaag | 1260 |
| tttgatcttg | gaggttgagg | agaagagatt | aatgtgcaga | aacacaagtt | tccattgggt | 1320 |
| tacaagacat | tccaggacgc | gatttctccg | cagcatgcta | tcgaggttct | tgatgagttg | 1380 |
| actaatggag | atgctattgt | tagtactggg | gttgggcagc | atcaaattgt | ggctgcgcag | 1440 |
| ttttatgagt | acaagagacc | gaggcagtgg | ttgacctcag | gggtctcttg | agccatgggt | 1500 |
| tttggaattg | ctgcggctat | tggtgctgct | gttgctaacc | ctggggctgt | tgtggttgac | 1560 |
| attgatgggg | atggtagttt | catcatgaat | gttcaggagt | tggccactat | aagagtggag | 1620 |
| aatctcccag | ttaagatatt | gttggtgaac | aatcagcatt | tgggtatggt | ggttcagttg | 1680 |
| gaggatagg | tctacaagtc | caatagagct | cacacctatc | ttggagatcc | gtctagcgag | 1740 |
| agcgagatat | tcccaaaccat | gctcaagttt | gctgatgctt | gtgggatacc | ggcagcgcca | 1800 |
| gtgacgaaga | aggaagagct | tagagcggca | attcagagaa | tggtggacac | ccctggcccc | 1860 |
| taccttcttg | atgtcattgt | gccccatcag | gagcatgtgt | tgccgatgat | tcccagtaat | 1920 |
| ggatccttca | aggatgtgat | aactgagggg | gatggtagaa | cgagggtac | | 1968 |

<210> 36
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 50 nucleotide fragment

<400> 36

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32

[illegible]